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ABSTRACT

Types of non-print social studies materials developed for presentation to, and use by, elementary school students are identified. "Non-print" materials include films, filmstrips, video cassettes, audio recordings, computer databases, telecommunications, and hypertext. An explanation of why elementary school students can benefit from the use of these resources is given, and an example of one person's experience in searching databases is presented. A bibliographic directory is included, as are selected references and selected catalogs, each contained in a separate appendix. (DB)

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ED339651

NON-PRINT SOCIAL STUDIES MATERIALS -- ELMENTARY SCHOOL LEVEL

by

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June, 1991

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Palm Leaves of Childhood

When I was very small indeed,
and Joe and Fred were six-year giants,
My father, they and I with soil
did mix farm-yard manure.
In this we planted coco-nuts,
naming them by brothers' names.
The palms grew faster far than I;
and soon ere I could grow a Man,
They, flowering, reached their goal!
Like the ear-rings that my sisters wore
came the tender golden flowers.
I watched them grow from gold to green
then nuts as large as Tata's head.
I craved for the milk I knew they bore.
I listened to the whispering leaves:
To the chattering, rattling, whispering leaves,
When night winds did wake.

They haunt me still in work and play:
Those whispering leaves behind the slit
On the cabin wall of childhood's dreaming and becoming.

G. Adali-Mortty

Table of Contents

	Page
Abstract	i
Introduction	1
Computer/telecommunications	1-17
ERIC and CLASSMATE Search	6-12
Types of Nonprint Materials for Young Children	13-16
Summary	17
Bibliographic Directory	
Appendix I Selected References	
Appendix II Selected Catalogs	

Abstract

This paper identifies types of non-print social studies materials developed for presentation to and for use by elementary school students. Elementary school students is defined by this author as K-6 grade levels. An interchangeable title is Non-Print Social Studies Materials for the Young Child.

Non-print material is defined as films, filmstrips, videos, cassettes, audios, databases, telecommunications, and hypertext.

Suggestion is offered in directing the elementary school student in formulation of research questions.

"This adventure will take you into the world of online information, where you will learn to satisfy your need for information using the power and abilities of computers.

As you know, computers are used for many purposes from playing video games to communicating by sattelite. In fact, one of the most useful things computers can do is transfer information from one location to another . . .When you search through the library for books and articles about a topic, you are doing research. If you were to use a computer to search for information or answers to your research questions, you would be performing online research. . ."[1]

The above statement, from DIALOG Information Services, Inc., introduces elementary school students to tools for acquisition of non-print information, specifically, the computer and programs. Through computer use, the student can retrieve social science information for research and information needs.

---

[1](DIALOG Information Services, Inc., "Classmate Student Workbook", p. 1)

The United States Government, e.g. ERIC, professional associations, trade associations, e.g. COFFELINE, and private-for-profit companies, e.g. CLIO, form the nucleus of database producers. These producers lease and/or sell to vendors, e.g. DIALOG, Information Services, BRS, ORBIT, H.W. Wilson (a producer and vendor), who then sell to institutions or individuals.

The major types of databases produced are bibliographic, full text, directory, and numeric.

Since these databases and software require an on-going financial commitment (refer to Reference 1 and Reference 2), the media specialist needs to quickly identify what type of information the student wants.

To clarify what she wants, ask the student to formulate her request as a question, e.g.:

"How is coffee harvested in Kenya?"
"What kinds of treatment are available for AIDS patients in Kenya?"
"Which animals in Kenya are on the world endangered list?"

Ask the student to underline the words within the question, from which the student may begin the search.

"How is <u>coffee</u> harvested in <u>Kenya</u>?"

"What kinds of treatment are available for AIDS patients in Kenya?"

"Which animals in Kenya are on the world endangered list?"

The student will use separate pages to list the search words/works for example, with the question, "How is coffee harvested in Kenya?":

Page 1

Kenya

1. (This list will probably be full texts)
2.
3.

Page 2

Coffee

1. (This may include full texts, bibliographic
2. references, and/or directory sources)
3.

Page 3

Farms, Plantations, Farmworkers, East Africa, Africa, Agriculture

(This page lists search words which may further aid the student)

Use the following question to "work-through":

Student's question:
"When did Ghana become independent?"
"When did Ghana become independent?"

For the basic-average student, the question could be answered from a full text in the library/media center. For the average-advanced student, the media specialist may want to online:

Ghana	Africa	Great Britain
	Independence	Colonies
	Independent	
	Statehood	
	Liberation	

Reviewing the use of databases and telecommunication software for the elementary student, always analyze the information needs of the student:

1. What is the student asking?
2. What is the specific topic?
3. What is the discipline area within the social sciences?

The media specialist can aid the student resolve her social studies question via computer telecommunication utilizing database searching.

For a complete overview of computer telecommunication -- electronic messaging, problem solving, database searching, multipurpose services, and addresses of services, refer to Chris Clark's article, "Computer Telecommunication and the School Library Media Center", in School Library Media Activities Monthly.

In locating nonprint social science media for elementary school use, this author utilized ERIC and CLASSMATE databases at the West Virginia University Evansdale Library. The following pages encompass that search. Note that the identifying words are social studies, non-print media, elementary education, grade level, and Africa.

From the sources displayed, this writer selected:

A Collection of Reviews of Trade Books, Films, Recordings and Free Materials to Use in Teaching Young Children About Israel

Resource Materials From the United Nations

East Asia: The Yale Outreach Catalogue, 1988

Georgia Mediagraphy

School Television for Social Studies: A Competency-Based Matrix, Grades K-3

Data Book of Social Studies Materials and Resources. Volume 10

The Village of the Round and Square Houses

Hot Hippo

Mufaro's Beautiful Daughters

The Baby Leopaard

Life In Morocco

SilverPlatter 3.00 ERIC (1/82 - 3/91)

No.	Records	Request
1:	5030	SOCIAL-STUDIES
2:	230	NONPRINT-MEDIA
3:	13	#1 and #2
4:	15094	/ELEMENTARY-EDUCATION
5:	1	#3 and #4

1 of 1
Marked in Search: #5

AN: ED253455
AU: Fisher,-Mary-Victor
TI: A Collection of Reviews of Trade Books, Films, Recordings and Free Materials to Use in Teaching Young Children about Israel.
PY: 1984
NT: 73 p.; For related documents, see SO 016 149-150. Exit Project, Indiana University at South Bend.
PR: EDRS Price - MF01/PC03 Plus Postage.
AB: Print and nonprint resource materials that can be used to teach preschool, kindergarten, elementary, and junior high school children about Israel are cited in this annotated bibliography. A total of 46 materials, most of which were published during the last 20 years, are listed. Trade books written for adults are reviewed in the first section. The second section cites trade books specifically written for elementary and junior high school children. Reviews of teacher handbooks and resource kits make up the third section. The next set of reviews concern non-print media, including films, filmstrips, and recordings. Suggestions for using the materials are provided. Free materials are cited in the next section. The concluding section cites books that can be used to compare and contrast Israeli people and customs with people and customs in other nations of the world. The document concludes with a summary, recommendations, and bibliography of nearly 70 related resources. (RM)

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SilverPlatter 2.00 ERIC (1/82 - 3/91)

No.	Records	Request
1:	5030	SOCIAL-STUDIES
2:	230	NONPRINT-MEDIA
3:	13	#1 and #2
4:	16094	ELEMENTARY-EDUCATION
5:	1	#3 and #4
6:	13	#3
7:	12	#3 not #5

1 of 5
Marked in Search: #7

AN: EJ398336
AU: Dufour,-Joanne; Szczerba,-Patricia
TI: Resource Materials from the United Nations.
PY: 1989
JN: Social-Education; v53 n5 p300-02 Sep 1989
AV: UMI
AB: Describes some of the items produced by and about the United Nations in a number of subject areas. Includes teacher s kits, posters, flags, books, booklets, data base information, and videotape recordings. Provides information of interest for teachers concerning each item and some designations of age appropriateness. Gives addresses for obtaining more complete lists. (KO)

2 of 5
Marked in Search: #7

AN: ED303414
AU: White,-Caryn; Levine,-Bruce
TI: East Asia: The Yale Outreach Catalogue, 1988.
CS: Yale Univ., New Haven, CT. Council on East Asian Studies.
PY: 1988
AV: East Asian Outreach Program, Yale University, Box 13A Yale Station, New Haven, CT 06520 ($5.00).
NT: 85 p.; For related document, see ED 276 666. Drawings may not reproduce well.
PR: EDRS Price - MF01/PC04 Plus Postage.
AB: The purpose of the East Asian Outreach Program at Yale University (New Haven, Connecticut) is to promote increased understanding of the East Asian countries of China, Japan, and Korea through educational and cultural programs and through the publication of this catalog which presents sources of print and nonprint resource materials for elementary, secondary, and postsecondary students. This catalog lists: (1) the outreach program s services, activities, and publications; (2) topics covered by its speaker's bureau; (3) information about loan policies for materials; and (4) the subject index to the catalog s audiovisual entries. The catalog offers annotated bibliographies, organized by country, of films, videotapes, feature films on videotapes, multi-media units, slide sets and filmstrips, records and audiocassettes, and artifact kits. Information about related materials housed in six Yale University libraries and four museums or special collections is provided, along with material about other Yale University organizations that sponsor or provide information about China, Japan, and Korea. (JHP)

3 of 5

TI: Georgia Madrigrams. Second Supplement.
CS: Georgia State Dept. of Education, Atlanta. Office of Instructional Services.
PY: 1987

NT: 23 p.
PR: EDRS Price - MF01/PC01 Plus Postage.
AB: This document is a guide to print and nonprint materials about Georgia and Georgians. Entries are arranged under the subject headings used in "Essential Skills for Georgia Schools." Criteria for inclusion were appropriateness for K-12 students and commercial availability of the item. Six books containing pictorial and photographic studies of Georgia and the songs of Georgia are included in the section on art and music. Thirteen biographies of Georgians are included in the second section. Novels, vignettes, short stories, and anecdotes are found in the 26 titles making up the section on language arts. The swamps, fishes, mines, ferns, and pteridophytes of Georgia are described in the collection under science. Thirty-two books in the social studies collection examine the culture and history of Georgia. Four titles are included from the videotape duplication collection. A list of the publishers' names and addresses is provided. (SM)

4 of 5
Marked in Search: #7

AN: ED276873
TI: School Television for Social Studies: A Competency-Based Matrix, Grades K-3.
CS: North Carolina State Dept. of Public Instruction, Raleigh.
PY: 1986
NT: 104 p.
PR: EDRS Price - MF01/PC05 Plus Postage.
AB: This matrix keys the objectives of the school television programs to the objectives of the grades K-3 competency-based curriculum. Eight programs of the "Out and About" series address science and social studies competency goals and objectives for kindergarten and grade 1. Titles of the lessons are: "Making Friends"; "Keeping Friends"; "Ways to Solve a Problem"; "Think Ahead"; "Why Did It Happen?" and "Observing"; "Describing"; and "Detecting." The "We Live Next Door" Series addresses grade 2 social studies competency goals. Titles of the lessons are: "Meet the Neighborhood"; "The Neighborhood Works Together"; "Food Comes to the Neighborhood"; "Transportation: A Secret Agent Travels to Nutdale"; "Keeping the Neighborhood Clean"; "Rules and Laws"; "Hospitals and Helpers"; "Earning and Spending"; "Fire in Nutdale"; and "Communications: Getting the Message." Ten programs of the "Common Cents" series address grade 3 social studies competency goals. Titles of the lessons are: "Trading"; "Producers and Consumers"; "Choices"; "Prices"; "How Money Works"; "Wants and Needs"; "Credit"; "Banking"; "Jobs"; and "Production." Each episode of the series is listed by number and title. The School Television Program objectives found in the teacher's guide and corresponding page numbers are given. Specific competency objectives for each episode are listed. (SY)

5 of 5
Marked in Search: #7

AN: ED254482
AU: Cook,-Kay-K., Ed.
TI: Data Book of Social Studies Materials and Resources. Volume 10.
CS: ERIC Clearinghouse for Social Studies/Social Science Education, Boulder, Colo.; Social Science Education Consortium, Inc., Boulder, Colo.
PY: 1985
AV: Social Science Education Consortium, Inc., 855 Broadway, Boulder, CO 80302 ($10.00).
NT: 125 p.; For volume 9 see ED 240 010.

ABSTRACT: Analyses of elementary and secondary social studies textbooks, supplementary materials, and teacher resource materials, all published in 1983, 1984, and 1985, are presented. The objective is to provide analyses of curriculum materials that will allow K-12 teachers, administrators, curriculum coordinators, and college methods teachers to select materials appropriate for their students, school, and community. The "Data Book" is organized into four major sections. The first major section contains analyses of elementary (K-6) social studies materials, including three new basal programs. Twenty supplementary materials are also briefly described. The second major section is devoted to secondary (7-12) curriculum materials. Twenty new analyses of basic textbooks are presented, along with nine shorter analyses of revised editions. The secondary curriculum materials section concludes with 24 brief descriptions of supplementary materials. The third section of the "Data Book" includes 26 short analyses of teacher resource materials. The fourth and concluding section contains descriptions of curriculum guides and units available through the ERIC system. Indexes are provided for author/editor, grade level, publishers, and subject area. Publishers' addresses are provided. (RM)

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 Volume in drive A has no label
 Directory of  A:\

AUTOEXEC BAT        84    1-08-88  10:29a
COMMAND  COM     25307    3-17-87  12:00p
BAT1     DOC      1024    1-15-87   8:27a
BAT2     DOC      1024    1-15-87   8:27a
STORY    DOC      2560    1-10-88  12:23p
HELLO    MSG       114    1-05-88   2:36p
DOCS           <DIR>      3-16-89   7:04a
SEMS           <DIR>      3-16-89   7:04a
RIDDLE         <DIR>      3-16-89   7:04a
BATS           <DIR>      3-16-89   7:04a
SAGA     ONE      2816    1-01-80  10:21a
SAGA     TWO       640    1-01-80  12:02a
CHAP1    TXT      4096    8-09-88   3:17p
CHAP2    TXT      2432    8-09-88   3:19p
CHAP3    TXT      3712    8-09-88   3:21p
CHAP4    TXT      1792    8-09-88   3:21p
CHAP12   TXT       256    8-10-88   9:06a
BATALL   DOC      1401    5-28-91   1:11p
       18 File(s)     583680 bytes free

brecap
In EDUC4 database

Set      Items    Description
S1         663    GL=(K OR P OR I) AND AFRICA
?type 1/1/1-5

 1/L/1
0324505          MEDIA CODE: MV; MP   DATE ADDED: 900629
  Village Of The Round And Square Houses, The
 PRODUCER CODE: WWS
 PRODUCER:       WESTON WOODS STUDIOS INSTITUTIONAL MEDIA INSTITUTE
                 389 NEWTOWN TURNPIKE
                 WESTON  CT  06883
                 (800)24 (203)226-3355

 DISTRIBUTOR CODE: WWS
 DISTRIBUTOR:    WESTON WOODS STUDIOS INSTITUTIONAL MEDIA INSTITUTE
                 389 NEWTOWN TURNPIKE
                 WESTON  CT  06883
                 (800)24 (203)226-3355
 RELEASE DATE:   1989
 MEDIA TYPE:     MV9X; MP6P
 LENGTH:         12 MIN
 SPECIAL FEATURES: COLOR
 GRADE LEVEL:    K; P; I
 ABSTRACT:       Presents  the  story from the book The Village Of The Round
    And Square Houses by Ann Grifalconi, which tells of a village where the
    men live in square houses and the women live in round houses.
 DESCRIPTORS:    Children's  Stories  ;  Social - Communication - Language ;
    Children - General; Africa
 SUBJECT CODES: 0115000; T752100; L120000; J020000

 1/L/2
0324501          MEDIA CODE: MV; MP   DATE ADDED: 900629
  Hot Hippo
 PRODUCER CODE: WWS
 PRODUCER:       WESTON WOODS STUDIOS INSTITUTIONAL MEDIA INSTITUTE
                 389 NEWTOWN TURNPIKE
                 WESTON  CT  06883
```

DISTRIBUTOR CODE: WWS
DISTRIBUTOR: WESTON WOODS STUDIOS INSTITUTIONAL MEDIA INSTITUTE
389 NEWTOWN TURNPIKE
WESTON CT 06883
(800)24 (203)226-3355
RELEASE DATE: 1989
MEDIA TYPE: MV9X; MP6P
LENGTH: 6 MIN
SPECIAL FEATURES: COLOR
GRADE LEVEL: K; P; I
ABSTRACT: Presents the story from the book Hot Hippo by Mwenye Hadithi and Adrienne Kennaway. Hippo longs to live in the water like the fish instead of on dry land.
DESCRIPTORS: Children's Stories ; Social - Communication - Language ; Children - General ; Africa; Animal Tales
SUBJECT CODES: 0115000; T752100; L120000; J020000; 0044500

I/L/3
0324500 MEDIA CODE: MV; MP DATE ADDED: 900629
Mufaro's Beautiful Daughters
PRODUCER CODE: WWS
PRODUCER: WESTON WOODS STUDIOS INSTITUTIONAL MEDIA INSTITUTE
389 NEWTOWN TURNPIKE
WESTON CT 06883
(800)24 (203)226-3355

DISTRIBUTOR CODE: WWS
DISTRIBUTOR: WESTON WOODS STUDIOS INSTITUTIONAL MEDIA INSTITUTE
389 NEWTOWN TURNPIKE
WESTON CT 06883
(800)24 (203)226-3355
RELEASE DATE: 1989
MEDIA TYPE: MV9X; MP6P
LENGTH: 14 MIN
SPECIAL FEATURES: COLOR
GRADE LEVEL: K; P; I
ABSTRACT: Presents the story from the book Mufaro's Beautiful Daughters by John Steptoe. Mufaro's two daughters are tested to reveal which is worthy enough to marry the king.
DESCRIPTORS: Children's Stories ; Social - Communication - Language ; Children - General; Africa
SUBJECT CODES: 0115000; T752100; L120000; J020000

I/L/4
0323734 MEDIA CODE: RT DATE ADDED: 900509
Baby Leopaard, The
PRODUCER CODE: BANTAP
PRODUCER: BANTAM AUDIO PUBLISHING
666 5TH AVE
NEW YORK NY 10103
1-800-223-6834

DISTRIBUTOR CODE: BANTAP
DISTRIBUTOR: BANTAM AUDIO PUBLISHING
666 5TH AVE
NEW YORK NY 10103
1-800-223-6834
RELEASE DATE: 1989
MEDIA TYPE: RT11
LENGTH: 20 MIN
GRADE LEVEL: K; P
ABSTRACT: Tells a traditional story inspired by the "How and Why" tales of West Africa. Narrated by storyteller Linda Goss and accompanied by the exuberant sounds of traditional African music.

SUBJECT CODES: M080050

1/L/5
0319880 MEDIA CODE: MC DATE ADDED: 570000
Life In Morocco
PRODUCER CODE: DOWP
PRODUCER: PAT DOWLING PICTURES NOW DISTRIBUTED BY BAILEY
2220 AVE OF THE STARS, APT 1204
LOS ANGELES CA 90036

DISTRIBUTOR CODE: BFA
DISTRIBUTOR: PHOENIX/BFA FILMS AND VIDEO, INC
470 PARK AVE SOUTH
NEW YORK NY 10016

RELEASE DATE: 1957
MEDIA TYPE: S8MM CARTRIDGE OPTICAL SOUND
LENGTH: 11 MINUTES
SPECIAL FEATURES: Color
GRADE LEVEL: I; J
ABSTRACT: Shows how people live and work today in the country and cities of this North African nation. Gives examples of primitive methods of agriculture dating back to ancient Arabic and Roman civilizations, and of modern influences in cities and on farms.
DESCRIPTORS: Africa -- Geography; Anthropology
SUBJECT CODES: J020000; Z030000
?

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TYPES OF NONPRINT MATERIALS FOR YOUNG CHILDREN

Target Group: Librarians/Media Specialists responsible for providing materials from the Social Sciences

Video: A "clipped" form for videocassette or videotape, which is a cassette containing videotape for playing back recorded material on a television set.

Examples:

Buy Me That! A Kid's Survival Guide to TV Advertising. Films,Inc., Video, 5547 N. Ravenswood Ave., Chicago, IL 60640.

For use in consumer economics.

Free at Last. Encyclopaedia Britannica Educational Corp., 310 S. Michigan Ave., Chicago, IL 60604.

Martin Luther King, Jr.

The Post Office. National Geographic Society, Educational Services, Dept. 91, Washington, DC 20036.

Civics.

Sacajawea. FilmFair Communications, 10621 Magnolia Blvd., N. Hollywood, CA 91601.

History -- Lewis and Clark.

Where in the World. Encounter Video, 2580 NW Upshur, Ste. 202, Portland, OR 97210.

Geography series.

Microcomputer Software: A small computer uses programs, data, routines.

Examples:

Decisions, Decisions: The Environment -- the Science and Politics of Protecting Our Planet. Tom Snyder Productions, 90 Sherman St., Cambridge, MA 02140.

Civics.

Mac TimeLiner. Tom Snyder Productions, 90 Sherman St., Cambridge, MA 02140.

History.

Audio: Sound only, as with cassettes or CD.

Examples:

Betsy Ross and the First American Flag. Michael Brent Publications, PO Box 1186, Port Chester, NY 10573.

History.

The Boy Who Lived With the Bears and Other Iroquois Stories. Parabola, 656 Broadway, NY, NY 10012.

History.

The Brave and the Bold.

Our Country 'tis of Thee.

Michael Brent Publications, PO Box 1186, Port Chester, NY 10573.

History.

Children's Songs of the Midnight Sun, Vol. 2. Ageless Music Works, Box 91344, Anchorage, AK 99504-1344.
Geography.

The Silver Stream; or, How to Hug a Porcupine. Artana Productions, Box 1054, Marshfield, MA 02150.
Sociology (justice).

Audiobooks: Books reproduced in cassette form, i.e., readers on audio recordings.

Filmstrips: A teaching aid using photographs, charts, words, etc., sequenced on a roll of film.

Examples:

Economics in Our World. Society for Visual Education, 1345 Diversey Pkwy., Chicago, IL 60614-1299.

Habitats. Society for Visual Education, 1345 Diversey Pkwy., Chicago, IL 60614-1299.
Geography.

Slim Goodbody's Program for a Healthy Planet. Society for Visual Education, 1345 Diversey Pkwy., Chicago, IL 60614-1299.
Geography.

A World of Food. Society for Visual Education, 1345 Diversey Pkwy., Chicago, IL 60614-1299.
Geography.

Hypertext: Visual with text.

The preceding examples can be utilized in multi-media formats for answering questions, remedial instruction, cooperative learning, as simulators, for varying viewpoints, and creative instruction.

Through this sample search, this author located catalogs, bibliographies, competency-based curriculum objectives, audio and film. Release and publication dates, excepting, Life in Morocco, of these samples are current; and therefore, may encourage individual reader inquiry.

In summary, this paper discussed the use of databases and telecommunications (non-print materials), for informational acquisition by the elementary school student, identified as a young child enrolled in grades K-6.

Additional types of non-print materials were defined and examples of these materials were given. Complete annotated bibliographic entries of these materials can be located in 1991 issues of Books In Print.

BIBLIOGRAPHIC DIRECTORY

1991. Books In Print. R.R. Bowker, 245 West 17 st., NY, NY 10011.

1991. Clearinghouse for Social Studies/Social Science Education, Social Studies Development Center, 2805 East Tenth Street, Suite 120, Indiana University, Bloomington, Indiana 47405, 812-335-3838.

1991. Creative Computer Visions CCV Inc., PO Box 6724, Charleston, WV 25362-0724, 800-843-5576.

1. Catalog of Multi-Media Materials
2. Networkable Educational Software Catalog

1989, January. DIALOG Information Services, Inc., Classroom Instruction Program, 3460 Hillview Avenue, Palo Alto, CA 94304, 800-3-DIALOG.

1991, June. Pugh, Penny, Coordinator, Database Services, Wise Library Reference Department, West Virginia University, Morgantown, WV 26506-6069.

Appendix I

Selected References

REFERENCE 1

Source: Penny Pugh, Coordinator, Database Services, Wise Library, WVU

SELECTED COMMUNICATIONS SOFTWARE

COMMUNICATIONS SOFTWARE FOR IBM OR MS/DOS MICROCOMPUTERS

Dialoglink
Price: $ 99.00
Dialog Information Services
3460 Hillview Ave.
Palo Alto, CA 94304
800/334-2564

Procomm
Price: $25.00-$50.00
Datastorm Technologies, Inc.
1621 Towne Dr., Ste.G
PO Box 1471
Columbia, MO 65205
314/474-8461

Smartcom II
Price: $149.00
Smartcom III
Price: $249.00
Hayes Microcomputer Products
PO Box 105203
Atlanta, GA 30348
404/449-8791

COMMUNICATIONS SOFTWARE FOR THE MACINTOSH

Microsoft Works
Price: $295.00
Microsoft Corp.
1 Microsoft Way
Redmond, WA 98052
800/426-9400

MacTerminal
Price: $125.00
Apple Computer Inc.
20525 Mariani Ave.
Cupertino, Ca 95014
408/252-2775

White Knight
Price: $139.00
The FreeSoft Company
150 Hickory Drive
Beaver Falls, PA 15010
412/846-2700

MATHEMATICS

■ MATHSCI® (MATH1): Research on pure and applied mathematics. (B)

MEDICINE

■ AIDSLINE (MEDI17): A stand-alone database providing complete access to the medical literature related to AIDS. (B)

■ CANCERLIT® (MEDI10): Wide coverage of cancer research. (B)

■ CLINICAL ABSTRACTS (MEDI12): Summaries of articles covering clinical practice and research. (B)

■ DRUG INFORMATION FULL TEXT (MEDI8): Complete text of the *American Hospital Formulary Service* and the *Handbook on Injectable Drugs*. (F,D)

■ EBASE (MEDI13): Comprehensive index, from 1982 to the present, of the world's literature on human medicine and related disciplines. (B)

■ HEALTH PLANNING & ADMINISTRATION® (MEDI11): Nonclinical research on all aspects of health care. (B)

■ INTERNATIONAL PHARMACEUTICAL ABSTRACTS (MEDI4): Research and current health related drug literature. (B)

■ MEDLINE® (MEDI1, 1983 to present; MEDI2, 1966 to present): Biomedical literature and research. (B)

■ NURSING & ALLIED HEALTH (MEDI14): Covers all aspects of nursing and related health fields. (B)

■ SMOKING & HEALTH (MEDI16): Information from journal articles, reports, and other literature concerning the effects of smoking on health. (B)

■ SPORT (MEDI13): Coverage of sports medicine research and fitness. (B)

NEWS

■ BOSTON GLOBE (NEWS13): Full coverage on high-technology companies in the Boston region with special emphasis on area politics and environmental cleanup efforts. (F)

■ CHICAGO TRIBUNE (NEWS12): Provides local, national, and international coverage of the news. (F)

■ CURRENT DIGEST OF THE SOVIET PRESS (NEWS7): Translations and abstracts from major Soviet newspapers and magazines. (F)

■ FACTS ON FILE® (NEWS5): A weekly record of contemporary history compiled from worldwide news sources. (F)

■ LOS ANGELES TIMES (NEWS10): Comprehensive coverage of California, the Pacific Rim, and in-depth coverage of world and national news. Emphasis on industries in the LA metropolitan area. (F)

■ NATIONAL NEWSPAPER INDEX™ (NEWS2): Covers *The Wall Street Journal*, *The New York Times*, *The Christian Science Monitor*, *The Los Angeles Times*, and *The Washington Post*. (B)

■ NEWSDAY® (NEWS15): The largest evening newspaper in the U.S. Provides in-depth information on New York City municipal government, political administration, retail sales, aerospace, and high technology. (F)

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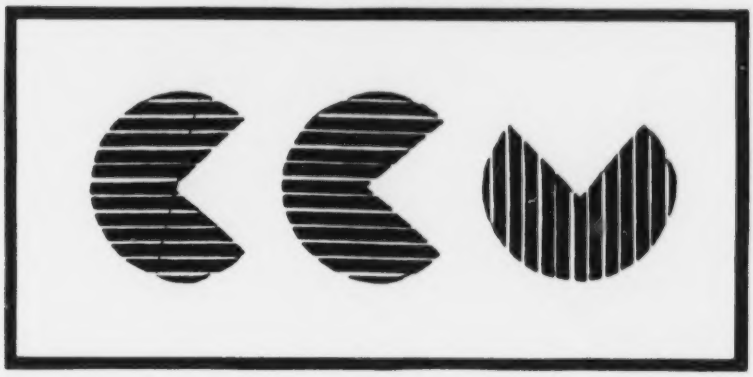

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YOU CAN'T GET THERE FROM HERE:
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THE NATIONAL ZOO: THE ZOO BEHIND THE ZOO (LM419D) **$29.95** **CAV I**
A magical tour of the Smithsonian's living animal collection. Come face-to-face with giant pandas, lions, orangutans, gorilla and elephants. Learn what can be done to save species from extinction, how animals can be trained to return to the wild, and the ways in which the latest medical care is used to keep animals healthy. Grade 1 up.

POLLINATION BIOLOGY (VD507D) **$299.00** **CAV I**
Documentary on all facets of flower pollination. Topics include the reasons for sexual reproduction, flower anatomy, kinds of pollinators, and flower adaptions. Beautiful close-up photography explores the unique lifestyle of such plants as orchids which mimic wasps, lilies which trap flies, flowers which attract bats, and underwater plants which send pollen to the surface to bubble. Each mystery unfolds with a lively narration and is accompanied by study questions. Grade 6 up.

SCIENCE: PHYSICAL

PHYSICS I AND II (GP305D) **$425.00** **CAV I**
In lesson 1 titled "Studies in Motion," the student is presented several examples of performances in dance, diving and gymnastics. By studying the motion, the student can determine such factors as linear and angular momentum, gravitational potential, etc. Lesson 2 titled "Transformations," uses several types of bicycles to present a number of problems in physics of rotational motion. Grade 6 up.

PHYSICS OF SPORTS (VD508D) **$275.00** **CAV I**
This disc provides a detailed visual record of more than 20 athletic events, filmed expressly for scientific analysis. The slow motion observation and measurement of performance of athletics using videodiscs can raise many questions. Because of the high interest in sports, many students who may be turned off by "science" are motivated to use formulae and solve problems. The principles and methods of physics are applied to study problems which are familiar and interesting to students. Grade 11 up.

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This is an interactive videodisc that recreates the legendary bridge disaster and teaches physics and engineering students important fundamentals. The videodisc features 3 separate levels of presentation according to the user's background in Math & Physics. Grade 9 up.

SOCIAL STUDIES

READER'S DIGEST: GREAT NATIONAL PARKS (LM420D) **$49.95** **CLV I**
The Great National Parks laser videodisc set is as informative as it is appealing. Portions of the program are devoted to telling the story about the parks, from their formation to their discovery by explorers. The presentation is rounded out by stunning shots of the parks which visitors seldom see. Grade K up.

TO NEW HORIZONS: EPHEMERAL FILMS 1931-1945 (VY275D) **$39.95** **CAV I**
The information on these TWO discs has been featured in news articles in several national magazines. Delightful glimpses of our recent past from 1931-1945 to include selections from pre WW II educational and industrial movies. Grade 9 up.

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See human dramas in American Life unfold before your eyes...hear the passionate voices of freedom, justice, equality. Relive the trials and triumphs of Native, Hispanic, African Americans, women, immigrants and labor. Grade 6-12. Requires Amiga with 1 MG RAM, 20 MG hard disk and video disc player.

SOCIAL STUDIES: GEOGRAPHY

AMERICAN VISIONS: ACADIA (LM421D) **$29.95** **CAV I**
Located on the coast of Maine, Acadia is the only National Park in New England and is the second-most visited park in the country. Highlighted by forest trails, rocky overlooks, and ocean tidepools teeming with sealife. Grade 3 up.

AMERICAN VISIONS: THE GREAT SMOKY MOUNTAINS (LM422D) **$29.95** **CAV I**
Explore the most visited park in the country located on the Tennessee/North Carolina border. Featured unspoiled forests and streams, mountain vistas, and the abandoned log homesteads of the pioneers. Grade 3 up.

AMERICAN VISIONS: OLYMPIC (LM423D) **$29.95** **CAV I**
Takes viewers through one of the system's most environmentally diverse parks, located in Washington State. Features glaciers, alpine meadows, rain forests and a rugged spectacular coastline. Grade 3 up.

THE CYCLING EXPERIENCE (LM424D) **$29.95** **CAV I**
A spectacular combination of captivating photography and new age music takes you on a journey into the equisite natural beauty of California - from a cyclist's point of view. Grade 3 up.

HAWAIIAN PARADISE (LM243D) **$34.95** **CLV I**
Takes a journey of discovery to six of the Hawaiian Islands. Tropical sunsets set the sky on fire, trade winds carry the scent of ginger and frangipani, lush palms sway, and majestic orchids bloom in profusion. Grade 7 up.

RAINBOW EDUCATIONAL VIDEO

SCIENCE

PLANTS: GREEN, GROWING, GIVING LIFE
This program gives examples of the diversity of plants. It shows how plants require food for energy and growth. This video shows how plants are made up of different parts like roots, stems, leaves, etc. The role that each of these parts plays in helping the plants survive are also explained.
Grades: 4-6 (RB857C) $89.00

OUR CHANGING EARTH
The earth that we live on is made up of land, water, crust mantle and core. It rotates on its axis causing day and night; its revolutions around the sun cause the seasons. The earth has been built up by volcanoes and mountains; it has been worn down by the forces of weathering, erosion, glaciers and earthquakes. These concepts are addressed with appropriate vocabulary.
Grades: 4-6 (RB856C) $89.00

PUSH AND PULL: SIMPLE MACHINES AT WORK. All machines are made up of combinations of simple machines. This video examines the six types of simple machines: the lever, the wheel and axle, the pulley, the inclined plane, the screw, and the wedge.
Grades 3-5 (RB852C) $89.00

MAGICAL MOTHER NATURE: THE FOUR SEASONS. With this full-motion video, youngsters will gain a better understanding of how important the changing of the seasons are to their world.
Grades 1-3 (RB845C) $89.00

WHERE DID THEY GO?: DINOSAUR UPDATE
Children visit one of the world's best dinosaur exhibits to learn what dinosaurs are, the different types, and how they did everything from raising their young to defending themselves from attackers.
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ROCKS AND MINERALS: THE HARD FACTS
Students travel with a geologist and explore what the earth is made of. Simple tests are performed to identify minerals, including quarts and crystals.
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BREAKING THE SILENCE: AN INTRO TO SOUND. Students will understand how all sounds are caused by something vibrating. Animation clarifies what sound waves are and how sound waves travel through the air to reach our ears. Students also learn how the ear functions allowing us to hear.
Grade 4-8 (RB814C) $89.00

THE FABULOUS FIVE: OUR SENSES
Tasting, feeling, smelling, seeing, and hearing - these are our fabulous five senses. Examples illustrate each of these senses. The children will be able to understand that their senses enable them to collect information about their environment.
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ANIMAL ABC'S
This video introduces young children to 200 animals in a context that is easy for them to understand...the alphabet. Narration is designed and paced to hold younger students interest.
Grade K-2 (RB8221C) $89.00

SOCIAL STUDIES

AWAY WE GO: ALL ABOUT TRANSPORTATION
This full motion video explores how transportation is an important part of our lives. This video also compares transportation in the past to the present and shows how the development of more advanced forms of transportation have brought people closer together and made travel and trade easier.
Grades 1-4 (RB854C) $89.00

FINDING YOUR WAY: USING MAPS AND GLOBES. Maps convey many different kinds of information. Included are examples of political maps, road maps, topographical and physical maps, weather maps and population maps. All the terms associated with these various types of maps are identified.
Grades 4-6 (RB851C) $89.00

REDUCING, REUSING, AND RECYCLING: ENVIRONMENTAL CONCERNS
This program focuses on the problems created by solid waste and offers ways to help alleviate these problems. Students will be made aware of the fact that natural resources are nonrenewable, such as the aluminum in a soda can. Student's in this video will demonstrate the "three r's" approach and we will see that we are, indeed, responsible for our environment and for the future of our planet.
Grades 4-6 (RB853C) $89.00

HEALTH

PUMPING LIFE: THE HEART AND CIRCULATORY SYSTEM
This video follows the functions of the circulatory system. The importance of blood and the roles of red and white blood cells are emphasized. We see how billions of cells get the oxygen and food they need for energy and how harmful wastes are removed. Graphics show the functions of the heart. The four chambers are then examined and the journey of the blood explained.
Grades 4-6 (RB847C) $89.00

OUR FLEXIBLE FRAME: THE SKELETAL AND MUSCULAR SYSTEMS
Support and shape are provided by the skeletal system. Using graphics, the video illustrates this point. All together there are 650 different muscles in the human body. Together, our bones and muscles form our flexible framework.
Grades 4-6 (RB848C) $89.00

AMERICAN HISTORY

OUR CONSTITUTION: THE DOCUMENT THAT GAVE BIRTH TO A NATION
Fully utilizing the spectacular backdrop of the events which surrounded the "We the People 200" celebration, in Philadelphia 1987, this video simply, clearly and with dramatic flair examines and explains the historical significance of the Constitution, its structure and function. The "Founding Fathers" and other prominent people who lead in its creation are introduced.
Grades 4-8 (RB815C) $89.00

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GLOSSARY OF VIDEODISC TERMINOLOGY

AUTHORING TOOLS: Software that allows a designer to prepare interactive programs with which to direct a viewer's path through an optical courseware program.

BARCODE READER: A small pen-sized laser pen used to read barcodes from paper. Usually used to create custom lesson plans and instant access to locations on the videodisc.

BROWSE: To navigate through elements of a program without a specific destination.

BUTTON: A graphical component that represents some embedded function. Ex. in HyperCard a user can create buttons that, when clicked upon, branches a user to another location in the program.

CAV: Constant Angular Velocity or "standard play" laser videodisc contains individually addressable still frames. This results in 30 minutes of video or 54,000 still frames on each side of the videodisc.

CLV: Constant Linear Velocity or "extended play" laser videodisc is mainly used for longer motion pictures. It holds 60 minutes of motion video on each side.

CD-ROM: Compact Disc Read Only Memory is capable of holding as much as 250,000 pages of graphic and textual information, CD ROM is ideal for delivering large applications and databases.

CHAPTER: A sequence of videodisc frames which can be addressed with a two digit code from 1 to 80. Provides quick searching to major logical divisions within a videodisc.

HYPERCARD/STACKS: An information manager application that allows non-technical users to create their own multi-media applications by a simple process of creating linkages between "cards".

INTERACTIVE CABLE: The cable which connects the computer to the videodisc player, permitting computer software to control the player.

LEVEL I: Interactive video that allows the user to control the retrieval of visual information from an optical disc in a videodisc player through use of a barcode reader or remote control.

LEVEL II: Interactive video that requires a videodisc player with a built-in microprocessor and a remote control. All prompts and menus are provided on the videodisc monitor.

LEVEL III: Interactive video in which the user's progress through the video is controlled by a microcomputer separate from the videodisc player and monitor. The program is recorded on a computer disk and can be modified by the programmer without changing the videodisc.

LINKWAY/FOLDERS: The IBM multimedia product similar to HyperCard. Linkway produces folders composed of pages which contain buttons, fields and pictures.

MONITOR/RGB (Red, Green, Blue): The color computer monitor with separate red, green and blue inputs used to display graphics and text.

MONITOR/TV: The monitor which can display either a video signal direct from videodisc players or regular broadcast TV signal (RF signal).

MONITOR/VIDEO: The monitor designed to receive direct a video signal.

NTSC VIDEO: The American, Canadian, and Japanese standard for broadcast video set at 525 lines per frame and 30 frames per second.

PAL VIDEO: The African, European, and South American standard for broadcast video set at 625 lines per frame and 25 frames per second.

REMOTE CONTROL: The hand-held, push-button device which allows the user to control and direct the playback of interactive video.

STEP: The advance, one frame forward or one frame backward, through still frames on a videodisc. (CAV only)

STILL FRAME: One videodisc frame such as a photograph, painting, graph, or map, or a paused frame from a motion video.

TEXT OVERLAY: Computer generated written information that is superimposed over a still frame or video segment on the video monitor. Requires special software and hardware.

VIDEODISC: An optical disc, shaped like a record, with video information etched on a metallic surface and sealed in plastic. Information is retrieved via a videodisc player.

VIDEODISC PLAYER: Hardware which directs a light beam over a revolving optical disc and converts the resultant electronic signals to "video" and "audio" for display on a monitor.

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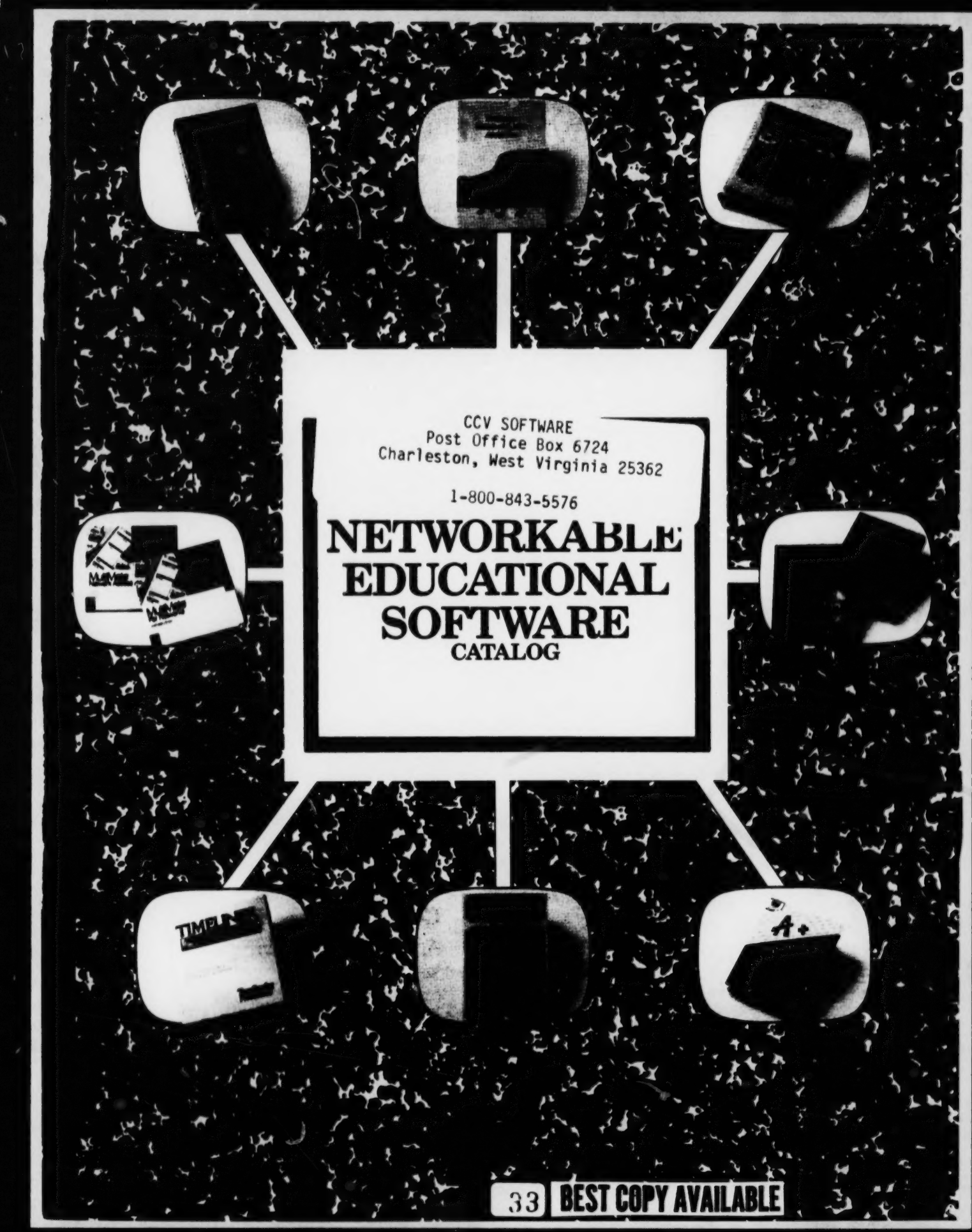

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Grade Level: 5th to 12th

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Students match words and phrases about states, cities, landmarks, waterways and climates to increase knowledge of U.S. geography. Lessons are broken into geographical areas such as Midwest, Pacific, and the Great Lakes. Contains 35 lessons with 10 questions each; with editing feature to add up to 10 additional lessons.

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WHERE IN THE USA IS CARMEN SANDIEGO?

Grade Level: 5 and Up

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One file server, maximum of 50 workstations.

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An exploration game of travel and mystique utilizing *The World Almanac*. Track a thief from country to country in search of a stolen Incan gold idol.

GLOSSARY OF COMPUTER TERMS FOR NETWORK USERS

Application Software A computer program designed to process information that addresses a specific user need. For example, instructional and tool application software may process data related to subjects such as reading, writing, mathematics, science, history, music, and art.

Backup Also called archival copy, a backup copy of programs or data is a copy of information stored on an additional disk. Backups may be on floppy disks or tape, and are intended for use in the event of damage to the original information on a working copy diskette or **hard disk**.

Cables Specific wiring attachments for computer devices. Most accessories such as monitors, printers, and network servers WILL NOT operate properly without the SPECIFIC CABLES intended for use by them.

CGA/EGA/MGA/VGA Levels of color/graphics capabilities based upon the monitor attached to a computer, and the internal connection which communicates with the screen. Programs which require certain color/graphics abilities are generally DOWNWARD compatible, but not UPWARD compatible. Lowest to highest color/graphics capabilities are as follows:

MGA-Monochrome with graphics
CGA or **RGB**-Color Graphics Adapter
EGA-Enhanced Graphics
VGA or **Super VGA**-Video Graphics Array

A program which requires EGA would work with a system that had EGA, VGA or Super VGA. It would NOT work with a level below the requirement.

Compatibility A system's ability to use software designed for an industry-standard machine. Generally, most computers and networks in educational environments are either IBM, IBM-compatible, Apple II series, Apple II-compatible, or Macintosh systems.

Compressed files Literally, "scrunched" electronic information. Some programs for networks are shipped as compressed files. This simply means that you will have to "install" the program properly to use it. Software which comes in a compressed form generally has clear and easy instructions for installing (decompressing) it.

Copy Protection Electronic information contained on some software to prevent unauthorized copying of disks, and to prevent single-user copies from being loaded on multiple-station networks. Attempts to load single-user software with copy protection on a network may damage both the disk and the network server.

Diagnostic Features Refers to the ability of some programs to diagnose learning styles, learning needs, or appropriate activities for a student based upon performance on a test or activities within the software.

Disk Space Requirement Programs loaded on a network consume space on the storage media of the network server. Generally, each 5.25" disk would require about 360,00 bytes of storage on the server. Each 3.5" disk would require about 720,000 bytes of space. Additional space will be required if users are going to store data associated with a program on the **hard drive**.

Documentation The user's guides and manuals, generally in printed form, which are supplied with software. Networked programs usually supply one full set of documentation for the teacher or system administrator, and limited documentation, such as quick reference card, for each licensed station, or **node**.

"Dumb" Terminal An input (e.g., keyboard) and output (e.g., screen) unit that has no capacity to process information. A dumb terminal is entirely dependent on the central computer to which it is connected for the processing of information.

File Any stored set of computer information. Documents saved to disk by the user are also considered files.

File Server The network hardware that stores **application software** and **user files** which it can deliver to the network's **workstations**.

Fonts Various typefaces used in programs designed for printing. The appearance of documents may be changed by switching the style or size of fonts used to prepare them.

Hard Disk A high capacity, high speed data storage unit that can store from five megabytes to hundreds of megabytes of information.

Integrated Programs Generally refers to software which serves more than one use, and which allows the user to transfer information between uses, or applications. For example, several programs include a word processor, spreadsheet, database, and telecommunications. An integrated program would allow the user to place spreadsheet information in a word processing document or to send the document via telecommunication, etc.

Joystick Input device which resembles the player controls on arcade games. Joysticks may be used by some educational programs, particularly those for early readers. Though some programs can use a **mouse** or a joystick, these devices are not generally interchangeable as input devices.

LAN (Local Area Network) A limited area (e.g., single building) communications system made up of interconnected microcomputers. In a LAN, the file server stores and delivers programs and data that can be accessed by connected microcomputers, called **workstations**.

LAN Pak (Local Area Network Package) Some software is packaged in such a way that network users must buy an original program, then LAN Paks to extend the program's usefulness to additional **nodes**, or **workstations**. Generally, LAN Paks allow the user to add access to a program for 3-5 nodes.

LCD Display Computer accessory which, when connected to an overhead projector, allows for the display of computer information on a large screen.

Management Systems Programs to keep track of student scores and report on the progress and computer use of individuals using the software on the network.

Modem Computer accessory which allows computer information to be transmitted by way of telephone lines. Modems

REQUIRE either telecommunication software, or **network software** designed to use phone lines in order to operate.

Mouse Input device used by some programs. A mouse is generally a small, plastic device located beside the keyboard and used to operate the program.

Network License Agreement A contract between a software publisher and an end-user for the legal use of software programs in a network environment. Network users are often required to complete license agreements to insure that software will be legally used on the number of stations for which it is purchased.

Network System Software The programs that computers need to function as a network. They instruct one hardware device, generally a computer with high storage capacity, to function as a **file server**, and other network computers to function as **workstations**.

Network Type Refers to the specific hardware/software system which controls the network. Software differs for each type of network, and this information is generally required at time of purchase. Some common network types include Appleshare, Novell, Corvus, Digicard, 3COM, Velan and Lantech.

Node An individual **workstation** or terminal served by the network.

Off-Line Condition in which a user, terminal, or other device is not connected to a computer or is not actively transmitting via a network.

On-Line Condition in which a user, terminal, or other device is actively connected with the facilities of a communications network or computer.

Pixels Refers to the graphics quality of a computer/monitor system. Each pixel is like a light on a scoreboard. The more vertical and horizontal pixels available, the higher a screen's resolution.

Prescriptive Features Refers to the ability of some programs to assign students appropriate lessons within the program based on their performance on a pre-test and/or activities within the program.

Printer support The capability of a program to communicate with various printers attached to a network system.

Satellite Location One or several **workstations** installed in a separate location from the **file server**.

Site License An agreement between a software publisher and an end user for the use of a program within a specified area (classroom, building, district).

SPOOLing (Simultaneous Peripheral Operations On Line) The capability that enables a network user to request the printing of a file and then quickly start to work on something else, before the document has been printed.

Standalone Computer An independently functioning microcomputer, unconnected to any other computer.

Standalone Software Software that is designed to run on **standalone computers**, as opposed to a network.

Station Address A numeric code which is assigned to individual **workstations** on some networks. When station addresses are used, the administrator assigns a number to each machine on the network. These numbers are then used by the network to keep track of printing, usage, and system features for each **workstation**.

Subdirectory or Directory An area of a disk designated for a specific purpose. Generally, subdirectories should be created for each program to be loaded on a network. On some Macintosh systems, subdirectories may be called "folders".

System Folder on a Macintosh, the area of the **hard disk** which holds information regarding the system's features, printers, accessories, etc.

User Files The files in which each user's records are stored. Word processing documents, database information, and records of student progress are types of user files.

User Level Sometimes called "Group", or Permissions", the user level refers to which programs and **hard disk** areas a specific user may access. A network administrator assigns levels to users when they are added to the system.

Video Network A system of devices that, when hooked up to computers in a network, will allow some or all of the users to view the current screen of other stations. A video network is useful for a teacher to demonstrate program operation from a master station, and for students to share information. A video network alone shares ONLY VIDEO DISPLAY. It DOES NOT permit the multiple use of programs without a standard network arrangement.

Workstation A computer, at which a network user can directly input, process, and view information. It is connected to a **Local Area Network**.